91-04265/

UPDATE: HIV/AIDS IN NOVA SCOTIA
December 31, 1990

Epidemiology has received reports of 71 cases which meet the surveillance case definition for AIDS (revised September 1, 1987). These include 70 adults and 1 pediatric case (<15 years of age). A total of 45 deaths have been reported.*

In this report, cases accepted for surveillance purposes which meet the revised definition but would not have been included under the previous case definition are indicated in Section VII to allow assessment of the effect of the expanded definition on the surveillance statistics.

I. ALL CASES

		Alive	Dead	Total
Adults:	Males	24	39	63
	Females	2	5	7
	Subtotal	26	44	70
Children:	Males	0	1	1
	Females	0	0	0
	Subtotal	0	1	1
Total		26	45	71

II. ADULT CASES

1. RISK FACTORS	Cases	Deaths
Homosexual/bisexual activity	57	36
IV drug abuse	1	1
Both of the above	1	1
Recipient of blood/blood products	8	5
Heterosexual activity **		
a) origin in endemic area	1	0
b) sexual contact with person at risk	0	0
No identified risk factors	2	1
TOTAL	70	44

** Heterosexual activity includes:
(a) persons originating in or residing in countries with a high prevalence of HIV and where heterosexual transmission of HIV is common; and,
b) persons reporting heterosexual activity with person(s) at risk of HIV infection.
This applies to all risk factor breakdowns in this report.

* in cases which were originally diagnosed in Nova Scotia

II. ADULT CASES (continued)

2. AGE GROUP (yrs)	Cases	Deaths
15-19	1	0
20-29	18	10
30-39	21	14
40-49	20	12
50 and over	9	8
Unknown	1	0
TOTAL	70	44

3. PRIMARY DIAGNOSIS	Cases	Deaths
KS without PCP	9	7
PCP without KS	34	26
Both KS and PCP	4	2
Other OI	18	8
Other Malignancies	2	0
HIV Wasting Syndrome	2	0
HIV Encephalopathy	1	1
TOTAL	70	44

III. ADULT MALES

1. RISK FACTORS	Cases	Deaths
Homosexual/bisexual activity	57	36
IV drug abuse	0	0
Both of the above	1	1
Recipient of blood/blood products	2	1
Heterosexual activity :		
a) origin in endemic area	1	0
b) sexual contact with person at risk	0	0
No identified risk factors	2	1
TOTAL	63	39

2. AGE GROUP (yrs)	Cases	Deaths
15-19	0	0
20-29	18	10
30-39	20	13
40-49	19	11
50 and over	5	5
Unknown	1	0
TOTAL	63	39

III. ADULT MALES (continued)

3. PRIMARY DIAGNOSIS	Cases	Deaths
KS without PCP	9	6
PCP without KS	29	21
Both KS and PCP	4	3
Other OI	16	8
Other Malignancies	2	0
HIV Wasting Syndrome	2	0
HIV Encephalopathy	1	1
TOTAL	63	39

IV. ADULT FEMALES

1. RISK FACTORS	Cases	Deaths
IV drug abuse	1	1
Recipient of blood/blood products	6	4
Heterosexual activity:		
a) origin in endemic area	0	0
b) sexual contact with person at risk	0	0
No identified risk factors	0	0
TOTAL	7	5

2. AGE GROUP (yrs)	Cases	Deaths
15-19	1	0
20-29	0	0
30-39	1	1
40-49	1	1
50 and over	4	3
Unknown	0	0
TOTAL	7	5

3. PRIMARY DIAGNOSIS	Cases	Deaths
KS without PCP	0	1
PCP without KS	5	4
Both KS and PCP	0	0
Other OI	2	0
Other Malignancies	0	0
HIV Wasting Syndrome	0	0
HIV Encephalopathy	0	0
TOTAL	7	5

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V. PEDIATRIC CASES

1. RISK FACTORS	Male	Female	Total
Perinatal transmission	0	0	0
Recipient of blood/blood products	1	0	1
Other	0	0	0
TOTAL	1	0	1

2. AGE GROUP (yrs)	Male	Female	Total
less than 1 yr.	0	0	0
1 to 4	0	0	0
5 to 9	1	0	1
10 to 14	0	0	0
TOTAL	1	0	1

3. PRIMARY DIAGNOSIS	Cases	Deaths
PCP	0	0
LIP	0	0
CMV	0	0
Other OI	1	1
TOTAL	1	1

VI. GEOGRAPHIC DISTRIBUTION BY HEALTH UNIT REGION

HEALTH UNIT (*)	Alive	Dead	Total
Western (Digby, Yarmouth, and Shelburne)	2	3	5
Lunenburg-Queens (Lunenburg and Queens)	0	0	0
Fundy (Annapolis, Kings, and Hants)	8	1	9
Atlantic (Halifax)	14	34	48
Cobequid (Colchester and Cumberland)	1	3	4
Northumberland (Pictou, Antigonish, and Guysborough)	1	0	1
Cape Breton (Victoria, Inverness, Cape Breton, and Richmond)	0	4	4
TOTAL	26	45	71

* Counties for each health unit region are indicated in parentheses

Source: Epidemiology, Nova Scotia Department of Health and Fitness

VII. CASES REPORTED BY DATE OF DIAGNOSIS

Year	Month	Number of Cases *	Cumulative Total	Rate of Increase **	Number of Deaths
1979-82		0	0		0
1983	01-03	1	1		1
	04-06	0	0		0
	07-09	0	0		0
	10-12	0	0		0
	Subtotal	1	1		1
1984	01-03	0	0		0
	04-06	1	1		0
	07-09	1	1		1
	10-10	0	0		0
	Subtotal	2	3	2.0	1
1985	01-03	1	1		0
	04-06	2	2		2
	07-09	0	0		0
	10-12	0	0		0
	Subtotal	3	6	1.5	2
1986	01-03	1	1		0
	04-06	2	2		1
	07-09	2	2		1
	10-12	1	1		1
	Subtotal	6	12	2.0	3
1987	01-03	4	4		4
	04-06	3	3		2
	07-09	4 (1) *	4 (1)*		0
	10-12	5	5		3
	Subtotal	16	28	2.7	9
1988	01-03	3	3		2
	04-06	3	3		3
	07-09	2	2		4
	10-12	6	6		5
	Subtotal	14	42	.88	14

* Numbers in parentheses refer to those cases which have been accepted as AIDS under the revised case definition and would not have been included previously. They are included in the total frequencies presented for cases and deaths.

** Secondary to the small number of cases, the rate of increase should not be interpreted in isolation.

VII. CASES REPORTED BY DATE OF DIAGNOSIS (continued)

Year	Month	Number of Cases *	Cumulative Total	Rate of Increase **	Number of Deaths
1989	01-03	4	4		2
	04-06	5	5		5
	07-09	2	2		2
	10-12	6	6		0
	Subtotal	17	59	1.2	9
1990	01-03	2	2		2
	04-06	7	7		2
	07-09	3	3		
	10-12			0.7	1
		12	71		5
TOTAL		71	71		45

* Numbers in parentheses refer to those cases which have been accepted as AIDS under the revised case definition and would not have been included previously. They are included in the total frequencies presented for cases and deaths.

** Secondary to the small number of cases, the rate of increase should not be interpreted in isolation.

VIII. FREQUENCIES OVER TIME BY SEX AND RISK FACTORS

		YEAR OF DIAGNOSIS								
		Pre-1983	1983	1984	1985	1986	1987	1988	1989	1990
Adults:	Males	0	1	2	3	5	14	13	13	12
	Females	0	0	0	0	0	2	1	3	1
Children:	Males	0	0	0	0	1	0	0	0	0
	Females	0	0	0	0	0	0	0	0	0

Adult Risk Factors:	pre-1983	1983	1984	1985	1986	1987	1988	1989	1990
Homosexual/bisexual activity	0	1	1	3	5	14	11	10	12
IV drug abuse	0	0	0	0	0	0	0	1	0
Both of the above	0	0	0	0	0	0	1	0	0
Recipient of blood/blood products	0	0	0	0	0	2	2	3	1
Heterosexual activity:									
a) origin in endemic area	0	0	0	0	0	0	0	1	0
b) sexual contact with person at risk	0	0	0	0	0	0	0	0	0
No identified risk factors	0	0	1	0	0	0	0	1	0

Pediatric Risk Factors:	1983	1983	1984	1985	1986	1987	1988	1989	1990
Perinatal transmission	0	0	0	0	0	0	0	0	0
Blood transfusion recipient	0	0	0	0	1	0	0	0	0
Other	0	0	0	0	0	0	0	0	0

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X. NUMBER OF DEATHS REPORTED IN NOVA SCOTIA OF CASES WHOSE ONSET OF ILLNESS OCCURRED OUTSIDE OF NOVA SCOTIA *

Year	Month	Number of Deaths
1979-87		0
1988	01-03	0
	04-06	1
	07-09	1
	10-12	2
	Subtotal	4
1989	01-03	0
1990	01-03	0
	04-06	1
	07-09	1
TOTAL		6

* reporting may be incomplete

XI. HIV ANTIBODY TESTING NOVA SCOTIA:

	NEW HIV+s BY YEAR **			ESTIMATE OF TOTAL HIV+s ***	
Year	Samples Submitted	Number HIV+	Percent HIV+	Cases X 3	Cases X 5
1985	228	26	11.4	78	130
1986	846	41	4.8	123	205
1987	3,369	54	1.6	162	270
1988	3,229	53	1.6	159	265
1989	3,890	43	1.1	129	215
1990	4,293	44	1.0	132	220
date unknown		2		6	10
	15,855	263	1.7	789	1315

Note: 71/263 are AIDS cases

In 1987, 27 HIV+s were reported January to July 1987
In 1988, 27 HIV+s were reported January to July 1988
In 1989, 21 HIV+s were reported January to July 1989
In 1990, 23 HIV+s were reported January to July 1990

** Number does not include those who were originally exposed outside of Nova Scotia

*** Epidemiological modelling for under-reporting

XII. HIV+S CASES BY AGE, SEX AND RISK FACTOR (*)

	Year of Diagnosis
	1990
ADULTS:	34
FEMALES:	3
FEMALE RISK FACTORS:	1990
Homosexual/bisexual activity	1
IV drug abuse	0
Both of the above	0
Recipient of blood/blood products	1
Heterosexual activity:	
(a) origin in endemic area	0
(b) sexual contact with person at risk	1
No identified risk factors	0
AGE GROUP (YRS)	1990
0-14	0
15-19	0
20-29	2
30-39	0
40-49	0
50 and over	0
Unknown	1
MALES:	31
MALE RISK FACTORS:	1990
Homosexual/bisexual activity	28
IV drug abuse	0
Both of the above/	0
Recipient of blood/blood products	2

* Relates to cases in which infection occurred in Nova Scotia.

XII. HIV+S CASES BY AGE, SEX AND RISK FACTOR (CONT'D)

	1990
Heterosexual activity:	0
(a) origin in endemic area	0
(b) sexual contact with person at risk	1
No identified risk factors	0

AGE GROUP (YRS)	1990
0-14	0
15-19	0
20-29	6
30-39	16
40-49	4
50 and over	2
Unknown	3

CHILDREN:	1

PEDIATRIC RISK FACTORS:	1990
Perinatal transmission	1
Blood transfusion recipient	0
Other	0

AGE GROUP (YRS)	1990
less than 1 yr	0
1 to 4	1
5 to 9	0
10 to 14	0

XIII. GEOGRAPHIC DISTRIBUTION OF NEW HIV+S BY HEALTH UNIT REGION

HEALTH UNIT (*)	1990
Western (Digby, Yarmouth, and Shelburne)	
Lunenburg-Queens (Lunenburg and Queens)	1
Fundy (Annapolis, Kings, and Hants)	1
Atlantic (Halifax)	41
Cobequid (Colchester and Cumberland)	
Northumberland (Pictou, Antigonish, and Guysborough)	
Cape Breton (Victoria, Inverness, Cape Breton, and Richmond)	1
TOTAL	44**

* Counties for each health unit region are indicated in parentheses

** 9 exposed outside Nova Scotia